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3) $P(V/G) = \frac{P(V \cap G)}{P(G)}$

$= \frac{1/30}{3/10} = \frac{1}{24}$

4) $(\overline{G}, \overline{G}, G, A, A)$

$P = P(\overline{G}) \cdot P(\overline{G}) \cdot P(G) \cdot 1 \cdot 1$

$= \frac{7}{10} \cdot \frac{7}{10} \cdot \frac{3}{10} \cdot 1 \cdot 1$

$= \frac{147}{1000}$